

DAILY LESSON LOG OF M7SP-IVf-g-1 (Week One-Day Three)

School		Grade Level	Grade 7
Teacher		Learning Area	Mathematics
Teaching Date and Time		Quarter	Fourth
I. OBJECTIVES	Objectives must be met over the week and connected to the curriculum standards. To meet the objectives, necessary procedures must be followed and if needed, additional lessons, exercises and remedial activities may be done for developing content knowledge and competencies. These are assessed using Formative Assessment Strategies. Valuing objectives support the learning of content and competencies and enable children to find significance and joy in learning the lessons. Weekly objectives shall be derived from the curriculum guides.		
A. Content Standards	The learner demonstrates understanding of key concepts of measures of central tendency of grouped data.		
B. Performance Standards	The learner is able to compute accurately the measures of central tendency.		
C. Learning Competencies/ Objectives	Learning Competency: Calculates Measures of Central Tendency of Grouped Data (M7SP-IVf-g-1) Learning Objectives: 1. Enumerate the steps in calculating the mean, median and mode; 2. Describe the three measures obtained; and 3. Solve problems involving mean, median and mode of grouped data.		
II. CONTENT	Measures of Central Tendency of Grouped Data		
III. LEARNING RESOURCES	teacher’s guide, learner’s material		
A. References			
1. Teacher’s Guide			
2. Learner’s Materials			
3. Textbook pages			
4. Additional Materials from Learning Resource (LR) portal			
B. Other Learning Resources	Learner’s Module in Grade 8 pages 564-580		
IV. PROCEDURES	These steps should be done across the week. Spread out the activities appropriately so that pupils/students will learn well. Always be guided by demonstration of learning by the pupils/ students which you can infer from formative assessment activities. Sustain learning systematically by providing pupils/students with multiple ways to learn new things, practice the learning, question their learning processes, and draw conclusions about what they learned in relation to their life experiences and previous knowledge. Indicate the time allotment for each step.		
A. Review previous lesson or presenting the new lesson	Review previous lesson by letting the students answer the following questions. 1. How do you find the mean of a grouped data? 2. How do you determine the median class of a data set? 3. What is the formula in finding the median of a grouped data? 4. How do you define the modal class? 5. What is the formula in finding the mode of a grouped data? Answer Key: 1. Just divide $\Sigma(fX)$ and Σf 2. The median class is the class that contains the $\frac{\Sigma f}{2}$ th quantity. The computed median must be within the median class. 3. $Median = lb_{mc} + \left(\frac{\frac{\Sigma f}{2} - <cf}{f_{mc}} \right) i$ 4. The modal class is a class with the highest frequency.		

	$5. Mode = lb_{mo} + \left(\frac{D_1}{D_1 + D_2}\right)i$																																																						
B. Establishing a purpose for the lesson	The teacher lets the students realize that applying their knowledge of the different mathematics concepts previously studied and the skills in performing mathematical operations are very important to understand the concepts of measures of central tendency of grouped data.																																																						
C. Presenting examples/ instances of the new lesson	<table border="1"><thead><tr><th colspan="6">2nd Periodic Test Scores in Mathematics</th></tr><tr><th>Score</th><th>Frequency <i>f</i></th><th>Class Mark <i>X</i></th><th><i>fX</i></th><th>Lower Class Boundary <i>lb</i></th><th>Less than Cumulative Frequency <i><cf</i></th></tr></thead><tbody><tr><td>46-50</td><td>2</td><td></td><td></td><td></td><td></td></tr><tr><td>41-45</td><td>9</td><td></td><td></td><td></td><td></td></tr><tr><td>36-40</td><td>13</td><td></td><td></td><td></td><td></td></tr><tr><td>31-35</td><td>11</td><td></td><td></td><td></td><td></td></tr><tr><td>26-30</td><td>10</td><td></td><td></td><td></td><td></td></tr><tr><td>21-25</td><td>5</td><td></td><td></td><td></td><td></td></tr><tr><td><i>i</i> =</td><td>$\sum f$ =</td><td></td><td>$\sum (fX)$ =</td><td></td><td></td></tr></tbody></table> Working in groups, the teacher lets the students use the materials (manila paper, marker and ruler) required for the next activity and calculate the mean, median and mode of the given grouped data. The teacher will let the students show and explain their output in the class. Checking and processing of their answers will then follow.	2 nd Periodic Test Scores in Mathematics						Score	Frequency <i>f</i>	Class Mark <i>X</i>	<i>fX</i>	Lower Class Boundary <i>lb</i>	Less than Cumulative Frequency <i><cf</i>	46-50	2					41-45	9					36-40	13					31-35	11					26-30	10					21-25	5					<i>i</i> =	$\sum f$ =		$\sum (fX)$ =		
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Guide Questions:																																																							
1. How did you determine the unknown values in the frequency distribution table?																																																							
2. What is the class size?																																																							
3. What is the class mark of the class with the highest frequency?																																																							
4. In the frequency distribution table, determine the following:																																																							
a) Median class																																																							
b) Cumulative frequency of the median class																																																							
c) Modal class																																																							
d) Lower boundary of the modal class																																																							
5. Find the following measures in the data set:																																																							
a) Mean																																																							
b) Median																																																							
c) Mode																																																							
Answer Key:																																																							
1. Answers vary																																																							
2. 5																																																							
3. 38																																																							
4. a. 31-35 ; b. 26 ; c. 36-40 ; d. 35.5																																																							
5. a. 34.70 ; b. 35.05 ; c. 38.83																																																							
D. Discussing new concepts and practicing new skills #1	The teacher discusses with the students the process of arriving at the answer of the activity. Furthermore, he/she asks the students about the mathematics concepts or skills used to calculate the mean, median and mode. He/She tells them that the given set of data is an example of calculating measures of central tendency of grouped data.																																																						
E. Discussing new concepts and practicing new skills #2																																																							

F. Developing mastery (leads to formative assessment 3)	The teacher lets the students do the activity individually. Directions: The frequency distribution below shows the height (in cm) of 50 students in DGLLOMNHS. Use the table to answer the questions that follow. Write your complete solutions and answers in a piece of paper. Height (in cm) of 50 Students in DGLLOMNHS <table><tr><th>Height (in cm)</th><th>Frequency</th></tr><tr><td>170-174</td><td>8</td></tr><tr><td>165-169</td><td>18</td></tr><tr><td>160-164</td><td>13</td></tr><tr><td>155-159</td><td>7</td></tr><tr><td>150-154</td><td>4</td></tr></table> Questions: - What is the total frequency of the given data set? - Complete the frequency distribution table. What is ΣfX? - How would you find the mean of the given data set? - Find the mean of the set of data. - Determine the following: - Median class - Modal class - Lower boundary of the median class - Lower boundary of the modal class - Find the median and the mode of the set of data? Answer Key: <table><tr><th>Height (in cm)</th><th>Frequency f</th><th>X</th><th>fX</th><th>$<cf$</th><th>lb</th></tr><tr><td>170-174</td><td>8</td><td>172</td><td>1,376</td><td>50</td><td>169.5</td></tr><tr><td>165-169</td><td>18</td><td>167</td><td>2,826</td><td>42</td><td>164.5</td></tr><tr><td>160-164</td><td>13</td><td>162</td><td>2,106</td><td>24</td><td>159.5</td></tr><tr><td>155-159</td><td>7</td><td>157</td><td>1,099</td><td>11</td><td>154.5</td></tr><tr><td>150-154</td><td>4</td><td>152</td><td>608</td><td>4</td><td>149.5</td></tr><tr><td>$i = 5$</td><td>$\Sigma f = 50$</td><td>$\Sigma (fX) = 8,015$</td><td></td><td></td><td></td></tr></table> 50 8,015 - Just divide $\Sigma (fX)$ and Σf 160.3 165-169 because the value of $n/2$ which is 25 falls in $<cf$ 42. 160-164 because it is a class having a higher frequency 164.5 159.5 - Median = 169.5 Mode = 161.77	Height (in cm)	Frequency	170-174	8	165-169	18	160-164	13	155-159	7	150-154	4	Height (in cm)	Frequency f	X	fX	$<cf$	lb	170-174	8	172	1,376	50	169.5	165-169	18	167	2,826	42	164.5	160-164	13	162	2,106	24	159.5	155-159	7	157	1,099	11	154.5	150-154	4	152	608	4	149.5	$i = 5$	$\Sigma f = 50$	$\Sigma (fX) = 8,015$			
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G. Finding practical applications of concepts and skills in daily living																																																							
H. Making generalizations and abstractions about the lesson	The teacher summarizes the mathematical concepts and skills used to calculate measures of central tendency of grouped data through questions like: - How did you find the mean, median, and mode of the data set? - Where there mathematical concepts or skills used to calculate measures of central tendency of grouped data? Answers shall be drawn from the students.																																																						
I. Evaluating Learning	The teacher will ask the students to get their journal notebook and write something on the new knowledge they learn from the day's activities. Possible insights can also be drawn from the different activities.																																																						
J. Additional activities or remediation																																																							

V. REMARKS	
VI. REFLECTION	<i>Reflect on your teaching and assess yourself as a teacher. Think about your students' progress. What works? What else needs to be done to help the pupils/students learn? Identify what help your instructional supervisors can provide for you so when you meet them, you can ask them relevant questions.</i>
A. No. of learners who earned 80% of the evaluation	
B. No. of learners who require additional activities for remediation who scored below 80%	
C. Did the remedial lesson work? No. of learners who have caught up with the lesson.	
D. No. of learners who continue to require remediation	
E. Which of my teaching strategies worked well? Why did these work?	
F. What difficulties did I encounter which my principal or supervisor can help me solve?	
G. What innovation or localized materials did I use/ discover which I wish to share with other teachers	

Prepared by:

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